## PROUBLICE LISTING

... American Home Products

Nad > Aggresamase Molesules

.:.> GI54350

<.fi> 19/---,---

:...> 20001=17=18

1.6 % 8

of a Patentin version 3.1

 $|| (1+\frac{1}{2})||_{L^{\infty}} = \frac{1}{2} || (1+\frac{1}{2})||_{L^{\infty}}$ 

<!!!> 242

NULLEY PRT

-Cub Homo sapiens

## - : > <u>:</u>

His Fig Ser Cys Leu Glin Ala Leu Glu Pro Glin Ala Val Ser Ser Tyr 5 15

low for Pro Gly Ala Fro Leu Lys Gly Arg Pro Pro Ser Fro Gly Phe 25 31

Fin Arg Gln Arg Gln Arg Gln Arg Arg Ala Ala Gly Gly Ile leu His 45

104 914 led Led Mal Ala Mal Gly Pro Asp Val Phe Glm Ala His Glm

Now Asp ThroSlu Arg Tyr Mai Lou ThroAsp Leu Asp ile Gly Ala Glu To leu leu Arg Asp Bio Sen Leu Gly Ala Glim Bhe Ang Mai His Leu Mai 81 - 95

lys Met Mal Tie leu Thr Glu Pro Glu Gly Ala Pro Aso lie Thr Ala

And lew Thr Ser Ser Ded Ded Ser Wal Cys Gly Drp Ser Gim Thr 114

Ash Pro Glu Asp Asp Thr Asp Pro Gly His Ala Asp Leu Mal Leu Tyr 135

lie Thr Arg Phe Asp leu Glu Leu Pro Asp Gly Ash Arg Gln Val Arg 185 - 186

Oly Wal Thr Glb Leu Gly Gly Ala Cys Ser Pro Thr Trp Ser Cys Leu 185 - 175

The The Glu Asp The Gly Fhe Asp Leu Gly Val The Ile Ala His Glu 195 - 197

The Gly His Ser Phe Gly Leu Glu His Asp Gly Ala Pro Gly Ser Gly 195 205

Cys Gly Pro Ser Gly His Val Met Ala Ser Asp Gly Ala Ala Pro Arg 215 220

Alu Sly Leu Ala Trp Ser Pro Cys Ser Arg Arg Gln Leu Leu Ser Leu Lus 235 240

Leu Arg

...... 2

k011> 1045

JJ.J> DNA

ULIN Homo sapiens

- 4 - 5 - <u>2</u>

Figure anagaggest angagtgtgg tenggatgga gaggtaggat aggnaggagg - 6.

enthalatgag jagtggggan gyangtbogg agggotggat ggaagstogn gogbbooter (12)

|                                 | : grgatavatç       | , agoaggotoa | gaagatgaag     | goggotgoag   | . gdddaccadd                                  |       |
|---------------------------------|--------------------|--------------|----------------|--------------|---|-------|
| <i>े इन्हें चुनि ने बुच्च</i> व | . ង់ប្បង្គង់១៦២៦   | . gagaagtaag | aagraatdad     | gega pogoda  | # <b>##</b> ################################# | 24    |
| ीर्जराष्ट्रिय सम्बद्धाः         | . Dá sá sagt bá    | . Egataangga | ogaagotgtg     | occaat dt da | igggcaatgg                                    | à     |
| tuantoppay                      | gi ogađgoda        | aranoorogg   | taatgaggca     | gotocaggit   | वृष्ट्रवाच्या ।<br>वृष्ट्रवाच्या ।            | .2 %  |
| ina maamida d                   | ा वृद्धा वृद्ध इद् | addayaadat   | gauggthadd     | atbaggbaab   | t paaggt daa                                  | 42    |
| a in aytgat                     | atagaggacc         | aggtbagbat   | ggodaggatd     | ogtgtogtoo   | .cagggttga                                    | 491   |
| iggeet ggat                     | nna doda da g      | abgotbagba   | gggabgaggt     | gaggttggct   | gtgalattig                                    | 54.   |
| gagoacocto                      | aggatatgta         | agaatgacca   | toutbassag     | gtgsasinga   | aantgagnon                                    | ć     |
| porgaganga                      | gimongaags         | agttotgcoo   | ngatgitgag     | gttggtgags   | abatagagat                                    | ás i  |
| mangnama                        | intagt gagne       | tggaagacat   | oggygassas     | ggodabilagi  | agstssaggt                                    | 2     |
| glaggatgini                     | geotgeages         | agast atges  | tatgastatg     | cototoggaag  | nnaggggaag                                    | 791   |
| dagggan                         | itttaaggga         | gcaccagggc   | thaagtaaga     | agadaddgiri  | igiggatiana                                   | 9.4   |
| aagrotgaag                      | acaantiiggg        | tgotabadas   | ឧខឧទ្ធធុទ្ធ១១១ | occagtisss   | रेरे अञ्चल्यात्र                              | ş : · |
|                                 | atornator          | oggatottyg   | ggaggtooto     | ggattgrass   | Adtousant n                                   | ÷     |
| iaggit more                     | ntatagtgag         | logtattaat   | ttcagaggag     | tatttagaag   | agaagitgaa                                    | 192.  |
| gotgtogaga                      | caaacgaaac         | tagtg        |                |              |   | 1045  |

<0.10> 3

KILLS 1,45

SELIN DIM

>1139 homo sapiens

Additional data grant description of the test of test of test of the test of test of test of the test of test

| att mtgabag  | . adautāmādā     | tgatacaaat  | atcapagoca  | adotoacoto  | gtaaatgatg     | Ξ÷           |
|--------------|------------------|-------------|-------------|-------------|----------------|--------------|
| Progratige g | gglgqaqooa       | gaccatcaac  | polgagga sg | ananggatos  | tggcoatgot     | $\epsilon$ : |
| Javot ggt oc | totatatoas       | taggittigad | stggagttgs  | Sīgaīggtaa  | poggaagg:q     | 861          |
| Maggagt da   | ocoagot ggg      | aggtgaatga  | topppaappt  | ggagatgaat  | pattabryay     | 72.          |
| ta ia iuggat | म्बद्धाः सम्बद्ध | agtoacoatt  | gordatqaqa  | tigggowoag  | otioggaatg     | 7 £ .        |
| da trangang  | 9,99,99,00,049   | cagaggatga  | ggoodoagog  | gadaogiigat | ggattaggan     | 94.          |
| 1479223232   | popgopongg       | aatagaatgg  | tappostgoa  | gaagaaqgaa  | gotgotgago     | 91.          |
| Tight daggt  | ag2g2223g22      | aagtaggagg  | ggugagagag  | citocagoca  | gaaataayga     | 9.60         |
| n: pagtada   | captorgoat       | tpagecetee  | ttaatgtaat  | apototopat  | pot ga dina da | 1720         |
|              | 1311133723       |             |             |             |                | 45           |

 $||\cdot||>-4$ 

.... 2217

 $\sim 1.12 > -2MA$ 

olio homo sapiens

## ragaritegge etggagdaeg aeggegegee eggeagegge tgeggeecea geggaeaegt 60 variadorned dameddadan deseradede ddesredaur ddreesserd cadsedandd 120 ray requesta goodgotoag abongtodot cogengoogo eccatotgot ggodacebad 150 studgegeeg geaggagest tagtettggt cocagecaag ageeggetee tggtggggg 240 191999009a gaadtootgt toocactoad aaaaggodad gottocaaad gottocatod 300 tryigocoae tectoogico ogeotocico oggigtadad coogggacig agoogggoot 360 Ragininggood tigingbago quatgaoggg ogdgottggig iggggaddogd ogdggodtra 420 alunggied goggggbase ogbggaatge goacotgggb ototactaca gogobaanga 42 2 magigoogo giggootiog goodcaaggo igtogootgo adotiogoda gggagoadot 540 surgautoty coggogytys cutygyatty gotytyagys cootocycat caccoayctu 600 - 131 randod aaabgtyrat ygatatgtgd baggdddt of bolgddabac agabbighty sa maaagda gotgoag sog ombootogbb ootobootgg abgggadaga abgbggmgbg THE CHARLOST gottroaaygg tegotgoogo toootggtgg agotgaoooo batagoagua it tratgggo gotggtotag stggggtood ogaagtostt gotooogsto otgoggagga

| ugīgtggto:   | i poaggaggo:   | g gbagtgbaa: | o aabcobaga. | e stgeetttg:  | g ggggcgtgca | 91.  |
|--------------|----------------|--------------|--------------|---------------|--------------|------|
| igigttggtg   | g otgapotoda   | a ggaagatq   | g tgcaacact: | c aggicingoga | a gaagacccag | 96   |
| pragagtica   | t tgt og saasa | a gtgogodagç | g accgacggs: | agoagatgag    | g atactadest | - 22 |
| 3309gagaat   | . dattatabaa   | ı ütggggtget | gotgtaccas   | a aaagadaaagg | ggatgetetg   | 1080 |
|              |                |              |              |               | agacagotto   | 1140 |
| stogatggga   | cccggtgtat     | godaagtggo   | ccccgggagg   | : acgggaboot  | gagootgtgt   | 1200 |
| gtgtogggda   | getgeaggae     | atttggctgt   | gatggtagga   | . tggacticca  | gcaggtatgg   | 1260 |
| gasaggtgcs   | aggtgtgtgtg    | - Eggggadaac | agcacgtgca   | godoacqgaa    | gggatatita   | 1320 |
| acagotggca   | gagojagaga     | ataugtdacg   | tttctgacag   | ttacccccaa    | cotgaccagt   | 1397 |
| gtriadattg   | ccaaccacag     | gastatatta   | acacacttgg   | cggtgaggat    | cggagggege   | _440 |
| taigtogigg   | ctgggaagat     | gagdatotod   | cotaacacca   | cataddoctd    | cctcctggag   | 1500 |
| gatagtegtg   | togagtadag     | agtggacata   | accgaggacc   | ggatgedacg    | cctggaggag   | 1561 |
| atangcatet   | ggggacccct     | ccaggaagat   | gotgacatco   | aggtgggagg    | tgtcagagcc   | 1620 |
| pagetratge   | acatcagetg     | gtggagcagg   | catggaettg   | gagaacqaga    | catgtgtgca   | 1680 |
| aggggsagat   | ggcctggagg     | ctccagtgac   | tgaggggcct   | ggeteegtag    | atgagaagct   | 1740 |
| gestgeccct   | gagecetgtg     | tegggatgte   | atgteeteea   | ddcr 11c.acc  | atctggatgc   | 1800 |
| cacctotgca   | ggggagaagç     | ctccctcccc   | atggggcagc   | atcaygacgg    | gggctcaagc   | 1860 |
| tgcacacgtg   | tggacccctg     | cggcagggtc   | gtgataagta   | taatgaggga    | gaggtetgat   | 1920 |
| ggagstgogt   | tteetgtgca     | tggaststgs   | cctcagggtg   | cctgtccagg    | aagagotgtg   | 1980 |
| tggastggca   | agcaagcctg     | ggagccggcg   | ggaggtstgs   | caggotgtoc    | cgtgccctgc   | 2040 |
| toggtggdag   | tacaagetgg     | cggcctgcag   | agtgagetgt   | aaagaaaaaaaa  | togtgeggag   | 2100 |
| gatoitgtat   | tgtgcccggg     | cccatgggga   | ggacjatggt   | gaggagatcc    | tgttggacac   | 2160 |
| praging coag | gggetgeete     | gcccggaacc   | ccaggaggcc   | tgcagcctgg    | agccctg      | 2217 |

<2100 5

<2.10 365

kalah prt

(213) homo sapiens

NC2.0

SCOLS MISC\_FEATURE

-...6> unknown amino avid

-11 S

FLL D> MIST FRATURE

kujua - 3eb .. 365

8023> unknown amino abid

~4. > 5

Met Asp Met Cys Glm Ala Leu Ser Cys His Thr Asp Pro Leu Asp Glm 5 15

For Ser Cys Ser Arg Leu Leu Val Pro Leu Leu Asp Gly Thr Glu Cys  $25\,$ 

Ny Mai Glu lys Trp Cys Ser Lys Gly Arg Cys Arg Ser Leu Mal Glu 35 41 45

Leu Thr Pro Ile Ala Ala Val His Gly Arg Trp Ser Ser Trp Gly Pro 50 60

And Ser Pro Cys Ser Arg Ser Cys Gly Gly Gly Val Val The Arg Arg

Arg Gln Cys Asn Asn Pro Arg Pro Ala Phe Gly Gly Arg Ala Cys Val 85 90 95

Gly Ala Asp Leu Gln Ala Glu Met Cys Asn Thr Gln Ala Cys Glu Lys 105 110

Dur Olm Leu Olu Phe Met Ser Glm Olm Oys Ala Arg Thr Asp Oly Glm 125 120 125

ito leu Arg Ser Ser Fro Gly Gly Ala Ser Phe Tyr His Trp Gly Ala
180

Al. Wal Fro His Set Glm Gly Asp Ala Leu Cys Arg His Met Cys Arg 185 - 187

Ala lle Gly Glu Ser Phe Ile Met Lys Arg Gly Asp Ser Phe Leu Asp 165 173 3.y Thr Arg Cys Met Pro Ser Gly Pro Arg Glu Asp Gly Thr Leu Ser 185 190

Led Dys Wal Ser Gly Ser Cys Arg Thr Bhe Gly Cys Asp Gly Arg Met 195 200

Asp Ser Gin Gin Val Trp Asp Arg Cys Gin Mai Cys Gly Gly Asp Asn 215

Se: Thr Cys Ser Pro Arg Lys Gly Ser Phe Thr Ala Gly Arg Ala Arg 200 235 240

Slu Tyr Val Thr Phe Leu Thr Val Thr Pro Ash Leu Thr Ser Val Tyr 245 250 255

Tile Ala Ash His Arg Pro Leu Phe Thr His Leu Ala Val Arg Ile Gly 265 270

Gly Arg Tyr Val Val Ala Gly Lys Met Ser Ile Ser Pro Asn Thr Thr 275 280 280

Tyr Pro Ser Leu Leu Glu Asp Gly Arg Val Glu Tyr Arg Val Ala Leu 290 295 380

Thi Glu Asp Arg Leu Pro Arg Leu Glu Glu Ile Arg Ile Trp Gly Pro 315 310 315

leu Glm Glu Asp Ala Asp Ile Glm Val Gly Gly Val Arg Ala Glm Leu 325 - 330 - 335

Met His Ile Ser Trp Trp Ser Arg Pro Gly Leu Gly Glu Arg Asp Leu 340 345 350

Cys Ala Arg Gly Arg Trp Pro Gly Gly Ser Ser Asp Xaa 355 360 365

<211> €

0.01.1> 739

· ...· TET

80.3> homo sapten

<221>

- Section MIST FEATURE
- 44 ...43
- Sunda unknown amine ac.d
- 11.1
- Nalaz Misc Feature
- <0000> 192 .. 192
- <223> unknown amine acid
- 4 11 5
- State MISC FEATURE
- 94.44 286 .. 288
- Sulps unknown amino adid
- <122 >
- <221> MISC\_FEATURE
- <222> 258 .. 258
- <2225 unknown amino acid
- 322.5
- <021> MISC\_FHATURE
- <a008 374,...374</pre>
- KUSAN unknown amino acid
- <22275
- RODIS MISC\_FEATURE
- 42748 39m .. 39m
- S7735 unknown amino acid

5022 3

- <!!!> MISU\_HEATURE
- <202> 452 .. 452
- 403> unknown amino arid
- 101> MISC FEATURE
- <2025 459 ... 459
- <013> unknown amino doid
- 5.22 >
- RESEL MISC FEATURE
- 475 ... 475
- 3223 unknown amino abid
- K225.+
- <321: MISO\_FEATURE</pre>
- <2002 487 .. 487</pre>
- <2232 unknown amino acid
- K411> 6
- Fer Phe Gly Leu Glu His Asp Gly Ala Pro Gly Ser Gly Cys Gly Pro
- Ser Gly His Val Met Ala Ser Glu Arg Arg Arg Pro Ala Pro Ala Ser 20 25 30
- lio Gly Pro Pro Ala Ala Ala Gly Ser Cys Maa Ala Cys Ser Asp Pro 35 45
- Ger Leu Arg Ard Arg Ser Leu Cys Tip Fro Fro Thi Ser Ala Pro Ala 51
- Fly Ala Leu Val Leu Val Pro Ala Lys Sex Arg Leu Leu Val Gly Gly  $\mathbb{R}^2$

- Also Fly Arg Glu led Led File Fro Led Thr Lys Gly His Ala Ser Lys 55 9. 95
- Arg The His Pro Arg Ala His Ser Ser Wal Pro Pro Pro Pro Gly Wal 105
- His Pro Gly Thr Glu Pro Gly Leu Ser Arg Ala Leu Ser Glm Arg Met 118 128
- The Gly Ala Leu Val Trp Asp Pro Pro Arg Pro Glm Pro Gly Ser Ala 185 143
- Gly His Pro Arg Asn Ala His Leu Gly Leu Tyr Tyr Ser Ala Asn Glu L40  $_{\odot}$  .
- Fin Jys Arg Mai Ala Fhe Gly Pro Lys Ala Mai Ala Cys Thr Phe Ala 165
- Arg Glu His Leu Mal Ser Leu Pro Ala Mal Ala Trp Asp Trp Leu Maa 180 - 180
- Gly Pro Ser Ala Ser Pro Ser Ser Arg Pro Pro Lys Arg Ala Trp Ile 195 200 205
- Cys Ala Arg Pro Ser Pro Ala Thr Gln Thr Arg Trp Thr Lys Ala Ala 215 220
- Ala Ala Ala Ser Ser Phe Leu Ser Trp Met Gly Gln Ash Val Ala Trp 225 230 235
- Arg Ser Gly Ala Pro Arg Mai Ala Ala Ala Pro Trp Trp Ser Maa Pro 245 - 255
- Pro Maa Gln Gln Cys Met Gly Ala Gly Leu Ala Gly Val Pro Glu Val 265 273
- Lou Ala Pro Ala Pro Ala Glu Glu Val Trp Ser Pro Gly Gly Ser 275 283
- Ala Thr Thr Pro Asp Leu Pro Leu Gly Gly Val His Val Leu Val Leu 295 - 300
- Thy Ser Arg Pro Arg Cys Ala Thr Leu Arg Pro Ala Arg Arg Pro Ser 315 - 325

- Orp Ser Ser Cys Aig Asn Ser Ala Pro Gly Pro Thr Ala Ser Aig Cys 325 - 335
- Ala Pro Pro Leu Ala Ala Pro Pro Ser Thr Thr Gly Mal Leu Leu Tyr 345 - 351
- His Thr Als lys Gly Met led Cys Ala Asp Thr Cys Ala Gly Fro Led 355 365
- Ala Arg Ala Ser Ser Maa Ser Mal Glu Thr Ala Ser Ser Met Gly Pro 37: 38:
- Fly Mai Cys Gln Mai Ala Fro Gly Arg Thr Gly Pro Maa Ala Cys Mai 191 395 4.
- Cys Arg Ala Ala Ala Gly His Leu Ala Val Met Val Gly Trp Thr Pro 415 415
- Ger Arg Tyr Gly Thr Gly Ala Arg Gys Val Val Gly Thr Thr Ala Arg 425 -430
- Ala Ala His Gly Arg Ala Leu Ser Gln Leu Ala Glu Arg Glu Asn Met 435 \$440\$ \$445
- Set Arg Phe Xaa Sin Leu Pro Pro Thr Xaa Pro Val Ser Thr Leu Pro 455 460
- In: Thr Gly Leu Ser Ser His Thr Trp Arg Maa Gly Ser Glu Gly Ala
- Met Ser Trp Leu Gly Arg Xaa Ala Ser Pro Leu Thr Pro Pro Thr Pro 485 490 490
- Fro Ser Trp Arg Met Val Val Ser Ser Thr Glu Trp Fro Ser Pro Arg 500 510
- Inr Gly Cys Pro Ala Trp Arg Arg Ser Ala Ser Gly Asr Pro Ser Arg 515 525
- Lys Met Leu Thr Ser Arg Trp Glu Val Ser Glu Pro Ser Ser Cys Thr 535 540
- Ser Ala Gly Gly Ala Gly Leu Ala Leu Glu Ash Glu Thr Gys Val Pro

Gly Ala Asp Gly Leu Glu Ala Pro Mal Thr Glu Gly Pro Gly Ser Mal 888

Asy Glu Lys Leu Fro Ala Fro Glu Pro Cys Mai Gly Met Ser Cys Pro 585 590

Fig Gly Trp Gly His Leu Asp Ala Thr Ser Ala Gly Glu Lys Ala Pro 595 600 605

Ser Pro Trp Gly Ser Ile Arg Thr Gly Ala Gln Ala Ala His Val Trp 610 620

The Pro Ala Ala Gly Ser Cys Ser Mal Ser Cys Gly Ard Gly Leu Met 63: 635 641

Guy Leu Arg Phe Leu Cys Met Asp Ser Ala Leu Arg Val Pro Val Gln 655 655

Glu Glu Leu Cys Gly Leu Ala Ser Lys Pro Gly Ser Arg Arg Glu Val 661 671

Cys Gln Ala Val Pro Cys Pro Ala Arg Trp Gln Tyr Lys Leu Ala Ala 605 680 685

Cys Ser Val Ser Cys Gly Arg Gly Val Val Arg Arg Ile Leu Tyr Cys 695 700

Ala Arg Ala His Gly Glu Asp Asp Gly Glu Glu Ile Leu Leu Asp Thr

Glm Cys Glm Gly Leu Pro Arg Pro Glu Pro Glm Glu Ala Cys Ser Leu 125 - 735

Gla Fro

<11.5

<311> 4284

K212> DNA

<0.035 homo sapien;</pre>

<41 > 7

langertite testaggetg etgaggades tessattite ageagagitg tettragget TTGGAGOOAC Aggoogtgto trottacttg agecotggtg etocettaaa aggoogcool 1 2 nottonnetg gottonnagag geagaggeag aggeagagge gggetebagg eggeatenta Parel Byago tgotygtgor bottgogoddo gabytottod aggothadda ggaggabara Jagrgotalg tgotrascaa colcaadato ggggoagaad tgottoggga doogtoootg 36. ggggctcagt brogggrgca corggrgaag arggreatte rgacacacec tgagggrgce 420 coasatatoa cagodaacet cacetegied eigeigageg ieigiiggiig gageeagade 4.5 AT MACCOSTS aggassas ggatostggs catgetgaed tggtoctota tateastags 540 tttgapotgg agttgoptga tggtaacegg caggtgeggg gegtesecca getgggeggt 611 660 grantgologo daacotggag otgootdatt acogaggada otggottoga ootgggagto 720 accattgeed atgagattgg geacagette ggestggage acgaeggeg geoeggeage gyungegged coagoggada egngangget neggaeggeg eegegideeg egeeggeste 7.50 8.4 [ grorggtodd colgdagoog doggdagotg otgagddtgd toagdgdagg abgggdgdd Lyngtgtggg accogoogog gootcaacoo gggtoogogg ggcacoogod ggatgogcag 5 culggeotot actacagogo caacgagoag tgoogogtgg cottoggood caaggotgto 9.50 goodgeacet tegecaggga geacetygat atgtgecagg coeteteetg ceacacagae 1025 1080 cogologiass amagements caseegoots stoyttoots testigating gacagamingt 1140 gg-gt-ggaga agt-gg-tg-to-caaggg-togo-t-googo-to-o-t-gg-t-gg-ago-t-ga-co-o-cata gragsagtgs atgggogetg grotagstgg ggtdocegaa gtootrgetd degetdetge 1200 ggaggaggtg tggtcaccag gaggcggcag tgcaacaacc ccagacctgc ctttgggggg 1260 ogigoatgig tiggigoiga cotocaygod gagatgigoa adacteagge bigogagaag 1320 acceagetyg agticatyte geaacaytye gecaggaceg acgyceagee yetyegetee 1380 toppetggeg gegeeteett etabbactgg ggtgetgetg tabbacadag bcaaggggat 1440 garatgigea gadasatgig bagggodatt ggogagagot toatdatgaa gogiggagad 1500 Agoltoctog atgggasocg grglatgoca Agtggccccc gggaggacgg gaccotgago 1561 clargigitg ogggeageig caggacatti ggeigitgatg glaggatgga ofoccageag 1620 gtatgggada ggtgddaggt gtgtggtggg gadaadagda cgtgdagddd acggaagggd 1690 Carriageag organização gagagalitat groangrito riganagritan contaantig 1742 arragigici acatigodaa odadaggoot ototidadad adtiggoggi gaggatogga 1800

atgoaccago greateraty ggdaagatgo cotoocctot gtgtggdogg aatcottgoo

-13-

1860 4347977419 togtggotgg gaagatgago atotopoota abaccadota doodtoodto TLYBAGGATG GTTGTTGTAGA GIACAGAGIG GDDDIDADAG AGGADDGGDI GCDDDGDDIG 192. yaggagatoo goatotgggg accostocag gaagatgotg acatocaggt ttacaggogg 198 lulygogagg agtatygoaa ootoaboogo obagabatba bottbabbta ottbbagbbt AABIJAPEGE AGGOOTGEET gEEGEGOOGEE GEGOGEGGE DEEGEEGGE GAGEEGEGG gragggotgo gotgggtaaa otacagotgo otggaccagg ocaggaagga gttggtggag 2160 aptightcoagh goodagggag coagoagood coagoghggs cagaggoong ogtigonogad 2221 lingigodoto cotalitagga ggtgggagas tiloggdobal gdagogdoto otgtgggggb 225 HAPPTEGEGGG Agridgereatt gogictgogtig gadgooraagy goagooticst yaagabattig 2341 improvagoso ggtghagage aggggdddag bagddagdtg tggbgdtgga wabotgdaab 11.4 Tradagodot godotgodag gtgggaggtg teagagodda getbatgeae atbagotggt 2460 Haagaaggoo tggoattgga gaangagado tgtgtgooag gggoagatgg notggaggot 252 inagigaetg aggggeetgg storgtagat gagaagotge etgeecetga decetgtgte 2581 Angatighoan gheetheagg enggggoeat enggangees echengeagg egagaaggen 2640 ocotecedat ggggeageat caggaegggg geteaagetg caeaestgtg gaeecetgeg 2700 gragggtegt getregtete etgegggega ggtetgatgg agetgegttt eetgtgeatg 2760 gastetgede teagggtgee tgtecaggaa jagetgtgtg geetggeaag caageetggg 2820 aganggoggg aggiotgeca ggolginong igonolgeta ggiqgoagia baaqelggog 2990 grotgoageg tgagergtgg gagaggggto gtgeggagga teetgtattg tgedegggee 2940 satggggagg acgatggtga ggagateetg ttggacacce agtgccaggg getgectege 3000 coggaacoco aggaggootg cagootggag cootgoodac otaggtggaa agtoatgtoo 3060 attiggiccat gitteggicag eigtiggeett ggeaetgeta gaegeteggt ggeetgigtig 3120 sagetegade aaggeeagga egtggaggtg gaegaggegg cetgtgegge getggtgegg 3185 Progaggeda gigiodecig idicatigod gaoligoadet acogoliggea igiliggeade 3240 tggatggagt getetgitte eigtggggat ggeatecage geeggegiga eaceigeete 3300 gyaccacagg cocaggogod tgtgccagot gatttotgcc agoacttgcc caageoggtg 3360 ustgtgegtg getgetggge tgggedetgt gtgggaeagg gtaegeeeag estggtgeee 3420 rangaagaag dogot gotoo aggaoggado adagodadoo otgotggtgo otoootggag 3490 Tagtiscagg proggggast gotottotos boggotocca agostoggog gotostgask 3547 444-000agg aaaantragt goagtobagt gootgtggba ggbagbabbt tgagbbaaba 36 0

| ggaaccattg  | abatgogagg | sssagggsag  | gcagactgtg | cagtggccat | radacadacee | 3660 |
|-------------|------------|-------------|------------|------------|-------------|------|
| or oggggggg | tggtgaccct | pogogi pott | gagagttata | tcaactgcag | ngcgggggac  |      |
| atuttgatga  | titggggeeg | gotoacetgg  | aggaagatgt | gcaggaagct | gttggadatg  | 35   |
| untttpaggt  | ccaagaccaa | cacgetggtg  | gtgaggcagc | getgegggeg | gecaggaggt  | 3847 |
| gjuatgrtgo  | tgaggtatgg | gagodagott  | gotostgaaa | sstts:acag | agaatgtgas  | 390. |
| atgragrat   | ttgggsmatg | gggtgaaatc  | gtgagoccct | cgctgagtcc | agosasgagt  | 3960 |
| antgcagggg  | getgeegget | ottoattaat  | gtggstsegs | acgcacggat | tgccatccat  | 4.20 |
| graatggaaa  | ccaacatggg | egetgggaee  | gagggagcca | atgecageta | catcutgato  | 4080 |
| ogggacacco  | acagottgag | gassasagsg  | ttocatgggo | agcaggtgct | ctactgggag  | 4141 |
| tragagagea  | genaggetga | gatggagttc  | agcgagggct | tootgaaggo | tcaggccage  | 4250 |
| atgaqggaa   | agtactggac | cotocaatca  | tgggtaccgg | agatgcagga | dddtaagtad  | 4260 |
| I igalgggaa | aggaaggaac | ctga        |            |            |             | 4234 |

K. Z. L. L. 19

<1.11 1427</p>

<2.120 PRT

<2135 homo sapiens

## <4.11 8

Met His Gl<br/>n Arg His Pro Trp Ala Arg Cys Pro Pro Leu Cys Val Ala <br/>1  $\phantom{0}$   $\phantom{0}$ 

Gly Ile Leu Ala Cys Gly Phe Leu Leu Gly Cys Trp Gly Pro Ser His

Fhe Gln Gln Ser Cys Leu Gln Ala Leu Glu Pro Gln Ala Val Ser Ser 35 40 45

Tyr Leu Ser Pro Gly Ala Pro Leu Lys Gly Arg Pro Pro Ser Pro Gly 50 60

Ehe Sin Arg Sin Arg Sin Arg Sin Arg Arg Ala Ala Siy Siy Ile Leu 85 75 80

His leu Glu Leu Leu Val Ala Val Gly Pro Asp Val Phe Gln Ala His 95 95 910100.0120.000

Fin Glu Asp Thr Glu Arg Tyr Mal leu Thr Ash Leu Ash Ile Gly Ala 30u Neu Neu Aru Asp Fro Ser Neu Gly Ala Gln Phe Arg Val His Neu 115 - 120 - 125 Ukl Lys Met Val Ile Leu Thr Slu Pro Glu Sly Ala Pto Asn Ile Thr 135 140 Ala Ash leu Thr Ser Ser leu Leu Ser Val Cys Gly Tmp Ser Gln Thr 145 - 150 - 155 - 160 Tim Ash Fri Glu Ash Ash Thr Ash Pro Gly His Ala Ash Leu Mal Leu 188 Tyr lle Thr Arg Phe Asp Leu Glu Leu Pro Asp Gly Ash Arg Gln Val Arg G.y Val Thi Gln Leu Gly Gly Ala Cys Ser Pro Thr Trp Ser Cys 195 200 205 Leu Ile Thr Glu Asp Thr Gly Phe Asp Leu Gly Val Thr Ile Ala His 213 228 Glu Ile Gly His Ser Phe Gly Leu Glu His Asp Gly Ala Pro Gly Ser 200 230 230 Usy Cys Gly Pro Ser Gly His Mal Met Ala Ser Asp Gly Ala Ala Pro 245 250 255 Arg Ala Gly Leu Ala Trp Ser Pro Cys Ser Arg Arg Gln Leu Leu Ser 265 270 Leu Ser Ala Gly Arg Ala Arg Cys Val Trp Asp Pro Pro Arg Pro 275 280 285 Ilm Pro Gly Ser Ala Gly His Pro Pro Asp Ala Glm Pro Gly Leu Tyr Tyr Ser Ala Ash Glu Glh Cys Arg Val Ala Phe Gly Pro Lys Ala Val A. & Cys Thr Phe Ala Arg Glu His Leu Asp Met Cys Gln Ala Leu Ser

| Nys         | His        | Thr        | Asp<br>340        | Pro        | Leu        | Asp        | Gln        | Ser<br>345 | Ser        | បក្នុន        | Ser        | Aig          | Leu<br>ser | Leu        | Mal.       |
|-------------|------------|------------|-------------------|------------|------------|------------|------------|------------|------------|---------------|------------|--------------|------------|------------|------------|
| 1:1         | Leu        | lea<br>355 | Asp               | 917        | The        | Glu        | 07s<br>361 | gly        | ∵al        | glu           | Lys        | T (D)<br>365 | Cys        | Ser        | Lys        |
| gly         | Arg<br>370 | Cys        | Arg               | Ser        | leu        | Tal<br>375 | glu        | Leu        | Thr        | Pro           | 11e<br>380 | Ala          | Ala        | Val        | His        |
| 91;<br>:::: | Arg        | Trp        | Ser               | Ser        | Trp<br>390 | 913        | Pro        | Arg        | Ser        | 9 KO<br>3 9 5 | Cys        | Sor          | Arg        | Ser        | Cys        |
| Gly         | es À       | siy        | Val               | Val<br>405 | Thr        | Arq        | Arg        | Arg        | Gln<br>411 | Суз           | Asn        | Asn          | Pro        | Arg<br>4.5 | Pro        |
| Ala         | Phe        | Gly        | Gly<br>421        | Arg        | Ala        | Cys        | Val        | Gly<br>425 | Ala        | Asp           | Leu        | Gln          | Ala<br>437 | Glu        | Met        |
| Jys.        | Asn        | Th:<br>135 | Gln               | Ala        | Cys        | 31u        | Lys<br>440 | Thr.       | Gln        | leu           | 314        | Pne<br>445   | Met        | Ser        | Gin        |
| Gin         | Cys<br>450 | Ala        | Arg               | Thr        | Asp        | Gly<br>455 | Gln        | Pro        | Leu        | Arg           | 3er<br>460 | Ser          | Pro        | Gly        | Gly        |
| Ala<br>461  | Ser        | ₽ħe        | Tyr               | His        | Trp        | Gly        | Ala        | Ala        | Val        | 4775<br>970   | His        | Ser          | Glr.       | Gly        | Asp<br>480 |
| Ala         | Leu        | Cys        | Arg               | His<br>485 | Met        | Cys        | Arg        | Ala        | Ile<br>490 | Gly           | Glu        | Ser          | Phe        | Ile<br>495 | Met        |
| 1. jis      | Arg        | зlу        | <b>Asp</b><br>500 | Ser        | Phe        | Leu        | Asp        | Gly<br>505 | Thr        |               |            |              | Prc<br>510 | Ser        | Gly        |
| lro         | Arg        | 31u<br>515 | Asp               | Glş        | The second | Leu        | Ser<br>520 | leu        | Cys        | ∵al           | Ser        | Gly<br>525   | Sei        | Сув        | Arg        |
| Thr         | Phe<br>530 | Gly        | Суѕ               | Asp        | Gly        | Arg<br>535 | Met        | Asp        | Ser        | Gln           | 31n<br>540 | Val          | Trp        | Asp        | Arg        |
| Jys<br>- 41 | Gln        | Val        | Cys               | Gly        | Gly<br>551 | Asp        | Asn        | Ser        | Thr        | 0ys<br>555    | Ser        | Pro          | Ārģ        | Lys        | Gly<br>560 |
| Sei         | Phe        | Thr        | Ala               | G1y<br>565 | Arg        | Ala        | Arg        | Glu        | Tyr<br>5-5 | Val           | Thr        | Phe          | Leu        | Thr<br>575 | Wal        |

In: Fio Ash led Thr Ser Wal Tyr Ile Ala Ash His Arg Pro Led Phe 885 - 881 The His led Ala Mal Arg Ile Gly Gly Arg Tyr Mal Mal Ala Gly lys 595 600 600 Met Ser Ile Ser Pro Asn Thr Thr Tyr Pro Ser Leu Leu Glu Asp Gly 61. 62. Arg Mal Glu Tyr Arg Mal Ala Leu Thr Glu Asp Arg Leu Pro Arg Leu 825 835 647 910 THE Arg The Trp Gly Pro Leu Gln Glu Asp Ala Asp The Gln 650 655 Tal Tyr Arg Arg Tyr Gly Glu Glu Tyr Gly Ash Leu Thr Arg Pro Asp 660 670 110 Thr Phe Thr Tyr Phe Gln Pro Lys Pro Arg Gln Ala Trp Val Trp 675 680 Ala Ala Val Arg Gly Pro Cys Ser Val Ser Cys Gly Ala Gly Leu Arg 690 700 Trp Val Ash Tyr Ser Cys lou Asp Gln Ala Arg Lys Glu Leu Val Glu The Mal Gln Cys Gln Gly Ser Gln Gln Pro Pro Ala Trp Pro Glu Ala 725 - 730 Cys Val Leu Glu Pro Cys Pro Pro Tyr Trp Ala Val Gly Asp Phe Gly 745 Fro Cys Ser Ala Ser Cys Gly Gly Gly Leu Arg Glu Arg Pro Val Arg 765 760 765 Cys Val Glu Ala Gln Gly Ser Leu Leu Lys Thr Leu Pro Pro Ala Arg Cys Arg Ala Gly Ala Glm Glm Pro Ala Val Ala Leu Glu Thr Cys Asm Fro Glm Pro Cys Pro Ala Arg Trp Glu Val Ser Glu Pro Ser Ser Cys 805 - 817 - 817

- Thr Ser Ala Gly Gly Ala Gly Led Ala Led Gld Ash Gld Thr Cys Mal 888
- Ero Gly Ala Asp Gly Leu Glu Ala Ero Val Thr Glu Gly Pro Gly Ser 835
- Val Asp Glu Lys Leu Pro Ala Pro Glu Pro Cys Val Gly Met Ser Cys 85. 861
- Fro Pro Gly Trp Gly Hos Deu Asp Ala Thr Ser Ala Gly Glu Lys Ala 808 875
- Fig. Ser Dro Trp Gly Ser Ile Arg Thr Gly Ala Gln Ala Ala His Val 885
- Trp Thr Pro Ala Ala Gly Ser Cys Ser Val Ser Cys Gly Arg Gly Leu 905 910
- Met Glu leu Arg Phe leu Cys Met Asp Ser Ala Leu Arg Val Pro Val 915 925
- Glm Glu Glu Leu Cys Gly Leu Ala Ser Lys Pro Gly Ser Arg Arg Glu 930 940
- Tal Cys Glm Ala Mal Pro Cys Pro Ala Arg Trp Glm Tyr Lys Leu Ala 945 950 950
- Ala Cys Ser Val Ser Cys Gly Arg Gly Val Val Arg Arg Ile Leu Tyr 965 970 975
- Cys Ala Arg Ala His Gly Glu Asp Asp Gly Glu Glu Ile Leu Leu Asp 980 985
- Thr Gln Cys Gln Gly Leu Pro Arg Pro Glu Pro Gln Glu Ala Cys Ser 998 1995
- led Glu Pro Cys Pro Fro Arg Trp Lys Val Met Ser Leu Gly Pro 1011 - 1020
- dys Ser. Ala Sor Cys Gly Leu. Gly Thr Ala Arg Arg. Ser Mal Ala 1985 - 1985
- Cys Val Gln Leu Asp Gln Gly Gln Asp Val Glu Val Asp Glu Ala 1040 1050

| Š. J. A                                | Cys<br>1.55          |     | Ala | leu | Tal | Arg<br>Lyd  | Pro | Glu | Ala  | Ser | Val<br>1165 | Pro | C <b>y</b> .s | Leu |
|--|----------------------|-----|-----|-----|-----|-------------|-----|-----|------|-----|-------------|-----|---------------|-----|
| ile                                    | Ala<br>1373          | Asp | Сув | The | Tyr | Arg<br>1075 | Trp | His | ∵al  | Gly | Thr<br>1989 | Trp | Met           | Glu |
| ិក្ខន                                  | Ser<br>1085          | Val | Ser | Cys | Gly | Asp<br>1090 | Glÿ | lle | Gln  | Azg | Arg<br>1,95 | Arg | Asp           | Thr |
| ្សែន                                   | Leu<br>III.          | Gly | Pro | Gln | Ala | Glm<br>1105 | Ala | Pro | Val. | Pro | Ala<br>III0 | Asp | Phe           | Cys |
| ala                                    | His<br>1115          | Ieu | Pro | Lys | Pro | Val<br>1120 | Thr | Val | Arg  | Gly | Cys         | Trp | Ala           | Gly |
|  | Cys                  |     | Зlу | Gln | Gly | Th:         | Pro | Ser | Leu  |     | Pro<br>1140 |     | Glu           | Glu |
|  | Ala<br>1145          |     | Pro | Gly | Arg | Thr<br>1150 | Thr | Ala | Thr  |     | Ala<br>1155 |     | Ala           | Ser |
|  | Glu<br>1160          |     | Ser | Gln |     | Arg<br>1165 |     | leu | Leu  |     | Ser<br>1170 |     | Ala           | Pro |
| 3ln                                    | Pro                  | Arg | Arg | Leu | Leu | Pro<br>1181 |     | Pro | Gln  |     | Asn<br>1185 | Ser | Val           | Gln |
| Ser                                    | Ser<br>[19]          | Ala | Cys | Gly | Arg | Gln<br>1195 | His | Leu | Glu  | Pro | Thr<br>1200 | Gly | Thr           | lìe |
| Asp                                    | Met<br>1205          | Arg | Gly | Pro | Gly | Gln<br>1210 | Ala | Asp | Cys  | Ala | Val<br>1215 | Ala | Ile           | Gly |
| Arg                                    | Pro<br>1220          | Leu | Gly | Glu | Val | Val<br>1225 | Thr | Leu | Arg  | Val | Leu<br>1230 | Glu | Ser           | Ser |
| Leu                                    | Asn<br>1235          |     | Ser | Ala | Gly | Asp<br>1240 |     | Leu | Leu  | Leu | Trp<br>1245 | Gly | Arg           | Leu |
| ************************************** | 5.45<br>1.45<br>1.45 | Arq | Lys | Met | Cys | Arg<br>1255 | Lys | Leu | Leu  | Asp | Met<br>1260 | Thr | Phe           | Ser |
| 3er                                    | Lys<br>1265          | Thr | Asn | Thr | Leu | Val<br>1271 | Val | Arg | Gl:: | Aig | Cys<br>1275 | Gly | Arg           | Pro |

| J        |             | Gl;  | ·   | Leu | . Leu | . Arg<br>1295 | Tyr | gly | . Ser | Gln   | . 183<br>183 | Ala | Pro | 914 |
|----------|-------------|------|-----|-----|-------|---------------|-----|-----|-------|-------|--------------|-----|-----|-----|
| lni      | Fhe<br>1295 | Tyr  | Ārģ | glu | Cys   | Asp<br>1300   | Met | Gln | Leu   | . Phe | Gly<br>130:  |     | Trp | Gly |
| #in      | 110         | ∵al. | Ser | Pio | Ser   | leu<br>1315   | Ser | Pro | Ala   | Thr   | Ser<br>1324  | Asn | Ala | Gly |
| g, y     | Cys<br>1325 | Arg  | Leu | Phe | Ile   | Asn<br>1331   | Val | Ala | Pro   | His   | Ala<br>1335  |     | lle | Ala |
| í je     | His<br>.34. | Ala  | Leu | Ala | 705   | Asn<br>1345   | Met | Gly | Ala   | Gly   | Thr<br>135)  | Glu | Gly | Ala |
| As n     | Ala<br>1355 | Ser  | 733 | 116 | Leu   | 71e<br>136    | Arg | Asp | Thr   |       | Ser<br>1365  |     | Arg |     |
| <u>×</u> | Ala<br>1371 | Phe  | His | Gly | Gln   | Gln<br>1375   | Val | Leu | Tyr   | Trp   | Glu<br>1380  | Ser | Glu | Ser |
| Se:      | Gln<br>1395 | Ala  | Glu | Met | Glu   | Phe<br>1390   | Ser | Glu | Gly   | Phe   | Leu<br>1395  |     | Ala | Gln |
| Ala      | Ser<br>1400 | Leu  | Arg | Gly | Gln   | Tyr<br>1405   | Trp | Thr | Leu   | Gln   | Ser<br>1411  | Trp | Val | Pro |
| Gla      | Met<br>1415 | Gln  | Asp | Pro | Gln   | Ser<br>1420   | Trp | Lys | Gly   | Lys   | Glu<br>1425  | Gly | Thr |     |